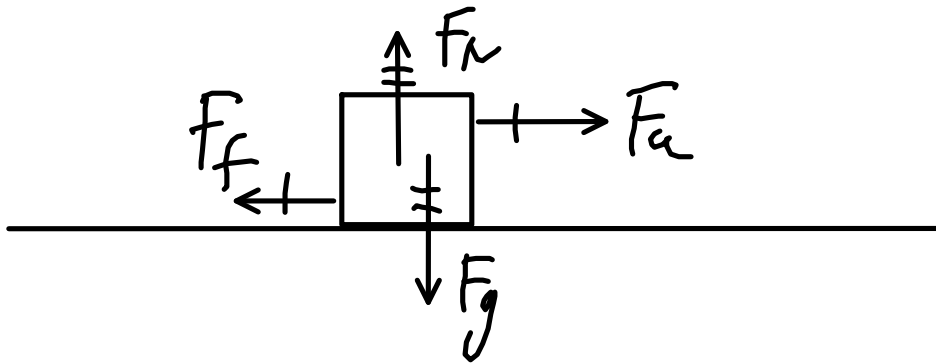


## Friction Lab

Purpose: explore factors that influence the coefficient of friction,  $\mu$ .

Hypothesis:

When  $a=0$ ,  $F_{\text{net}} = 0$  so forces are balanced



$$F_N = F_G \quad \text{and} \quad F_a = F_f$$

$$F_f = \mu F_N$$

$$\mu = \frac{F_f}{F_N} \quad \text{if } a=0 \quad \mu = \frac{F_a}{F_g}$$

list factors that may influence  $\mu$ .

predict the influence

show me your list and go into the lab to test.